AMENDMENT UNDER 37 C.F.R. § 1.111

Application No.: 10/599,379

**AMENDMENTS TO THE CLAIMS** 

This listing of claims will replace all prior versions and listings of claims in the

Attorney Docket No.: Q97218

application:

**LISTING OF CLAIMS:** 

Claims 1-23 (canceled)

24. (Currently amended) A carbon flexible heating structure formed by molding a

conductive composition obtained by mixing liquid silicone rubber and carbon black at a

weight rate in a range of 100:1~15 into a particular shape and curing a mixture,

wherein the carbon flexible heating structure has the shape of a mesh, and

wherein the mesh is a fabric made of a woof and a warp and has port portions formed

longer than the woof or the warp of the fabric, and the port portions are formed of a conductive

metal wire having superior conductivity.

25. (Previously presented) The carbon flexible heating structure of claim 24, wherein

the port portions are tin-plated copper wires or silver wires.

Claims 26 - 28 (canceled)

3

AMENDMENT UNDER 37 C.F.R. § 1.111 Attorney Docket No.: Q97218

Application No.: 10/599,379

29. (Currently amended) A carbon flexible heating structure formed by molding a conductive composition obtained by mixing liquid siliconsilicone rubber and graphite powder at

a weight rate in a range of 100:10-150 into a particular shape and curing a mixture,

wherein the carbon flexible heating structure has the shape of a mesh, and

wherein the mesh is a fabric made of a woof and a warp and has port portions formed

longer than the woof or the warp of the fabric, and the port portions are formed of a conductive

metal wire having superior conductivity.

30. (Previously presented) The carbon flexible heating structure of claim 29, wherein

the port portions are tin-plated copper wires or silver wires.

31. (Currently amended) A carbon flexible heating structure formed by molding a

conductive composition obtained by mixing liquid silicon rubber and graphite powder at

a weight rate in a range of 100:10-150 into a particular shape and curing a mixture,

wherein insulation coating formed of an insulating mixture obtained by mixing liquid

siliconsilicone rubber and a diluent and agitating a mixture is provided on a surface of the carbon

flexible heating structure.

4